

STRUCTURAL NOTES LOAD DATA:

2012 INTERNATIONAL BUILDING CODE

BUILDING RISK/OCCUPANCY CATEGORY: 2 (STANDARD OCCUPANCY STRUCTURE)

DEAD LOAD = SELF-WEIGHT OF THE STRUCTURAL COMPONENTS AND

ROOFING MATERIAL PERMANENT EQUIPMENT BELOW ROOF LINE

(CEILING, LIGHTING, INSULATION, ETC.).

COLLATERAL GRAVITY = 5.00 PSF ROOF COVERING

+ SECONDARY DEAD LOAD = 2.52 PSF

= 20 PSF REDUCIBLE ROOF LIVE LOAD

= 115.00 MPH (ULTIMATE) - 89.08 MPH (ASD) WIND SPEED **GROUND SNOW LOAD** = 20.00 PSF FLAT ROOF SNOW

SPECTRAL RESPONSE - SS = 12.00 %g SPECTRAL RESPONSE - SI = 7.00 %g WIND EXPOSURE (FACTOR) = C

SEISMIC DESIGN CATEGORY = B

GENERAL FOUNDATION NOTES

ALL WORK TO BE DONE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODE & ALL LOCAL CITY & STATE CODES.

2. ALL PERIMETER FOOTINGS AND GRADE BEAMS SHALL BEAR A MINIMUM OF 24" BELOW FINISHED GRADE AND A MINIMUM OF 18" INTO UNDISTURBED SOIL OR PLACED ON 95% STD. PROCTOR COMPACTED FILL. WHERE PLACED ON COMPACTED FILL, FTGS. SHALL BE PLACED AT LEAST 12" BELOW THE COMPACTED SURFACE AN INDEPENDENT TESTING LABORATORY SHALL PERFORM SOIL COMPACTION TESTS AND SUBMIT WRITTEN REPORTS TO THE ARCHITECT PRIOR TO THE CONTRACTOR'S PLACING FTGS. ON COMPACTED FILL. UNDER NO CIRCUMSTANCES SHALL THE FTGS. BE LESS THAN 30" BELOW FINISH GRADE

3. NO FOOTING TRENCH SHALL BE OPENED WITHOUT HAVING REINFORCING AND CONCRETE READY TO BE PLACED WITHIN THAT WORKING DAY, ANY VARIATION FROM THIS PROCEDURE REQUIRES THE APPROVAL OF THE ARCHITECT. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS UNLESS NOTED

4. BEARING SURFACES AT THE BOTTOM OF EXCAVATIONS SHALL BE PROTECTED FROM EITHER INUNDATION OR DRYING OUT DURING THE EXCAVATION PROCESS. CONTRACTOR SHALL PROVIDE POSITIVE SURFACE DRAINAGE DURING CONSTRUCTION.

5. ALL CONCRETE SHALL BE MADE FROM TYPE II CEMENT WITH A 28 DAY COMPRESSIVE STRENGTH AS

NOTED BELOW. LOCATION 4-6" 1 1/2" **FOOTINGS** 3500 SLAB ON GRADE 4000 FOUNDATION WALL 4000 1 1/2" STAIRS & STEPS 4000 SIDEWALKS & DRIVES 4000 2-4"

CONCRETE MIX SHALL CONFORM TO ASTM C94. AGGREGATES SHALL CONFORM TO ASTM C33. ALL

CONCRETE WITH EXTERIOR EXPOSURE SHALL HAVE AIR ENTRAINMENT AS PER ASTM C260. 7. UNLESS OTHERWISE NOTED, CLEAR CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ACI CODE 318 AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

CONCRETE EXPOSED TO EARTH OR WEATHER (FORMED & POURED). 8. THE USE OF ADMIXTURES, INCLUDING CALCIUM CHLORIDE, IS NOT PERMITTED WITHOUT THE

CONSENT OF THE ARCHITECT. REINFORCING BARS SHALL BE NEW BILLET STEEL. ASTM 615, GRADE 60. PROVIDE CONTINUOUS BENT BARS AT FOOTING STEPS & 90 DEGREE BENT TIES AT CORNERS. UNLESS OTHERWISE NOTED, LAP SPLICES & EMBEDMENT LENGTH SHALL CONFORM TO THE CURRENT ACI CODE 318.

PROVIDE CORNER BARS EQUAL TO ADJACENT BAR SIZE, OR BEND LONGITUDINAL BARS.

ADJACENT BAR SPLICES IN WALLS AND FOOTINGS SHALL ALTERNATE. WELDED WIRE FABRIC SHALL CONFORM TO THE CURRENT ASTM SPECIFICATION FOR COLD DRAWN

STEEL REINFORCEMENT WIRE. LAP END AND EDGES A MINIMUM OF 6".

13. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO CURRENT ACI CODE 318 EXCEPT WHERE OTHERWISE INDICATED

14. ALL REINFORCING IS TO BE FABRICATED AND PLACED IN STRICT ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION.

15. TYPICAL CONCRETE SLAB: 6" SLAB W/ 6X6 - W2.1 X W2.1 WWF OVER 4" CRUSHED STONE BASE. ALL EXTERIOR OR EXPOSED CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH A.C.I. 309 "RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE". 17. ALL REINFORCING SHALL BE FREE OF RUST, DIRT, AND MILL SCALE PRIOR TO PLACEMENT OF

18. ASSUMED SOIL BEARING CAPACITY OF 2000 PSF USED IN DESIGN OF THIS STRUCTURE. FIELD

VERIFY CONDITIONS & IF WEAKER SOILS ARE ENCOUNTERED REDESIGN AS REQUIRED. 19. THE BASE OF THE FOOTING EXCAVATIONS MUST BE COMPACTED WITH MECHANICAL TAMPERS

PRIOR TO PLACING REINFORCING STEEL. 20. IN THE EVENT ORGANIC SOIL IS FOUND BELOW FOOTINGS OR FLOOR SLABS, IT SHALL BE REMOVED

AND REPLACED WITH SELECT FILL, COMPACTED IN 8" LIFTS AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY STANDARD PROCTOR PROCEDURES (ASTM D 698).

21. FOOTING EXCAVATIONS SHOULD BE INSPECTED BY THE GEO-TEC ENGINEER TO VERIFY THAT FOOTINGS BEAR ON SUITABLE SOILS PRIOR TO PLACING REINFORCING STEEL. FOOTING SIZE BASED ON 2000 PSF SOIL BEARIING CAPACITY - CONTRACTOR TO VERIFY SOIL CONDITIONS & ADJUST FOOTINGS AS REQUIRED (DO NOT DECREASE FROM SIZE SHOWN).

22. FIBERMESH IN CONCRETE NOT ACCEPTABLE IN LIEU OF WOVEN WIRE MESH.

23. 2'-0" (MIN.) DIAMOND SHAPED CLOSURE AT COLUMNS, TYPICAL.

ALL EXPOSED CONCRETE EDGES AND CORNERS SHALL BE CHAMFERED 3/4".

INTERIOR SLABS SHALL BE SMOOTH TROWELLED. EXTERIOR SLABS SHALL HAVE A LIGHT BROOM FINISH, UNLESS OTHERWISE NOTED. ALL SLABS SHALL HAVE A CURING COMPOUND APPLIED TO THE SURFACE, COMPLYING WITH ASTM C309, UNLESS CURING COMPOUNDS ARE NOT COMPATIBLE WITH REQUIRED ADHESIVES OR FINISHES.

THE ELEVATIONS ARE GIVEN WITH REFERENCE TO FINISH FLOOR DATUM 100'-0".

VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIONS, EMBEDMENT, ETC BEFORE PLACING CONCRETE. 28. FOOTING ELEVATIONS NOTED ON THE FOUNDATION MAY BE LOWERED AS NECESSARY TO OBTAIN THE SPECIFIED BEARING CAPACITY AND/OR COVER.

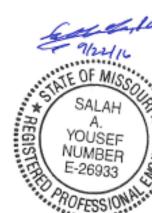
29. LAP ALL UNDER SLAB VAPOR BARRIER SHEETS A MINIMUM OF 6" AT ALL SPLICES.

30. FOR FUTURE SLAB (IF ANY), PROVIDE SLAB CONTROL (CJ) AT 12'-0" O.C. MAX. CJ'S SHALL BE APPROX. 1/3 OF THE SLAB DEPTH AND SHALL BE SAW CUT AS SOON AS POSSIBLE (WITHIN 12 HOURS OF POUR).

SPECIFIC FOUNDATION NOTES

SEE METAL BUILDING SUPPLIER ANCHOR ROD AND DETAILS FOR EXACT LOCATIONS OF ANCHORS.

ASSUMED SOIL CAPACITY OF 2000 PSF.



REVISED

BLUESCOPE CONSTRUCTION

MoDOT Milan Mechanics

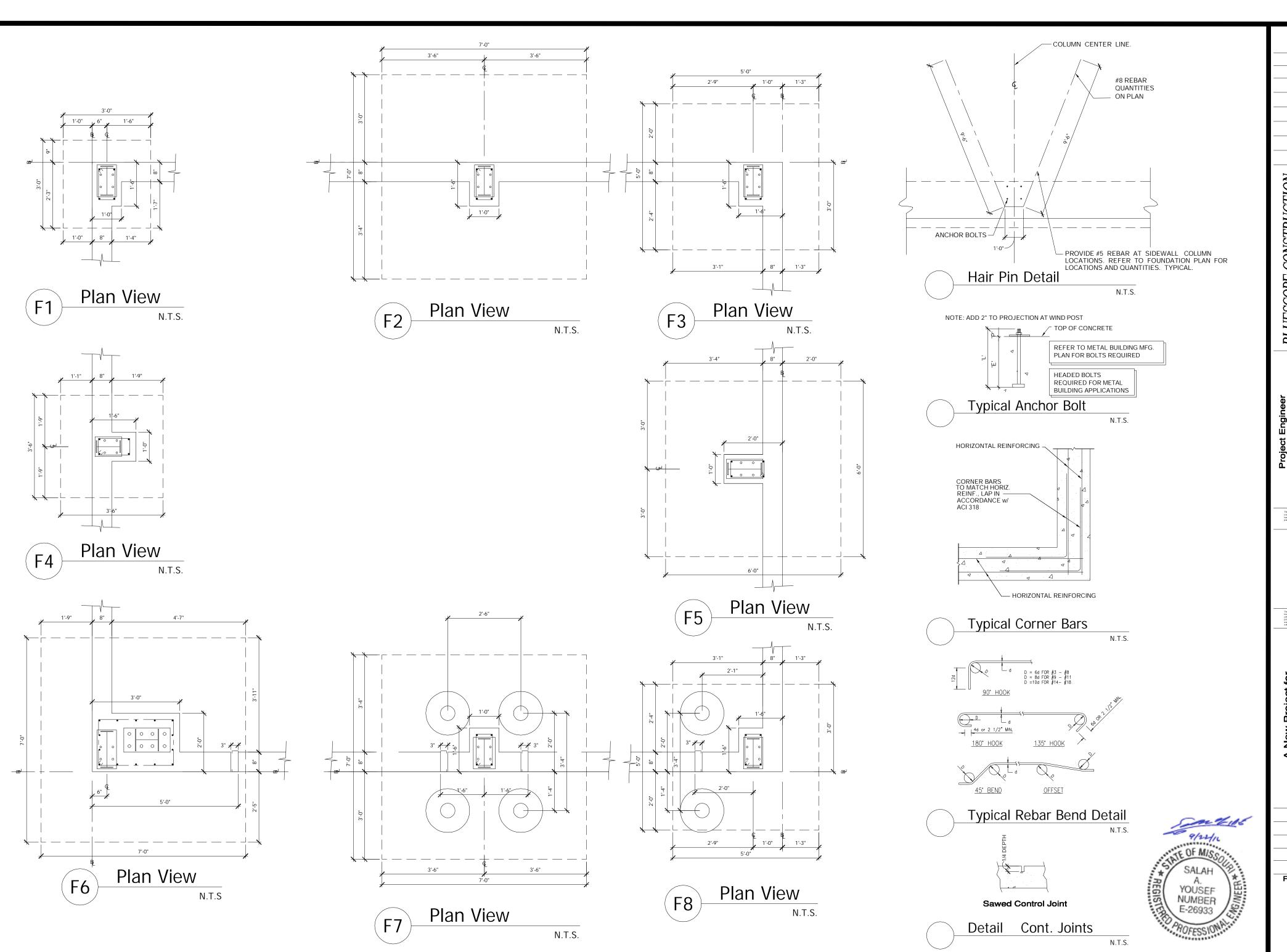
MoDO: n Mech Milan

September 2016

DRAWN BY

As Indicated G16085

Foundation Plan and Notes

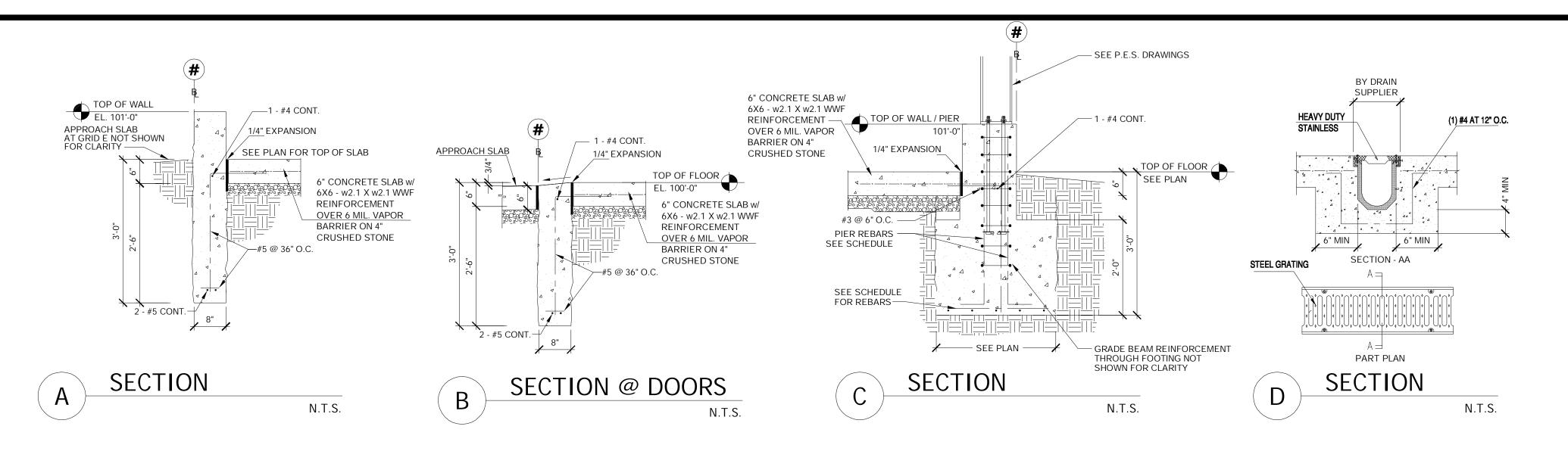


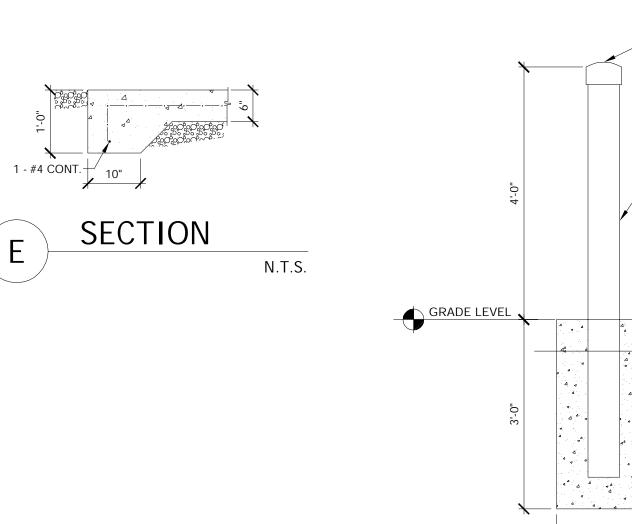
REVISED

BLUESCOPE CONSTRUCTION
PROJECT # G-16085
MoDOT Milan Mechanics
Milan. MO

A New Projec MoDO⁻ Milan Mech Milan, MC

DRAWN BY SAY CHECKED BY DATE
September 2016 As Indicated JOB NUMBER **G16085** Foundation Details





V	PVC CAP
4'-0"	6" STD. PIPE FILLED WITH CONCRETE. MAINTAIN FULL WIDTH OF CLEAR OPENING BETWEEN BOLLARDS
	TOP OF FOOTING (WHERE APPLICABLE)
GRADE LEVEL	
30"	NOTE: WHERE BOLLARD FALLS ON TOP OF FOOTING, PLACE PIPE IN FOOTING BEFORE CONCRETE POUR
E	BOLLARD DETAIL

N.T.S.

FOOTING SCHEDULE			
FTG. MARK	PIER: TOP OF PIER ELEV. VERT. PIER REINF. PIER TIES: a = b = b =	FOOTING TOP OF FOOTING ELEV. BOTTOM OF FOOTING ELEV. FOOTING SIZE (WxLxT) FOOTING REINFORCING	ANCHOR RODS (QTY.) DIA. x (L) A36 THREADED ROD HEAVY HEX NUT UPSET THREADS
F1	T.O.P. = 101.00 (4) - #5 VERT. #3 TIES AT 6" O.C. a = 6"; b = 12"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $3'-0$ " x $3'-0$ " x $2'-0$ " (6) #5 x $2'-6$ " EACH WAY	(4) 3/4"ø x 36"
F2 & F7	T.O.P. = 101.00 (4) - #5 VERT. #3 TIES AT 6" O.C. a = 6"; b = 12"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $7'-0$ " x $7'-0$ " x $2'-0$ " (12) #5 x $6'-6$ " EACH WAY	(4) 3/4"ø x 36"
F3 & F8	T.O.P. = 101.00 (4) - #5 VERT. #3 TIES AT 6" O.C. a = 6"; b = 12"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $5'-0$ " x $5'-0$ " x $2'-0$ " (9) #5 x $4'-6$ " EACH WAY	(4) 3/4"ø x 36"
F4	T.O.P. = 101.00 (4) - #5 VERT. #3 TIES AT 6" O.C. a = 6"; b = 12"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $3'-6$ " x $3'-6$ " x $2'-0$ " (6) #5 x $3'-0$ " EACH WAY	(4) 3/4"ø x 36"
F5	T.O.P. = 101.00 (4) - #5 VERT. #3 TIES AT 6" O.C. a = 6"; b = 12"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $6'-0$ " × $6'-0$ " × $2'-0$ " (11) #5 × $5'-6$ " EACH WAY	(4) 3/4"ø x 36"
F6	T.O.P. = 101.00 (14) - #5 VERT. #3 TIES AT 6" O.C. a = 18"; b = 30"	T.O.F. = $99'-6$ " B.O.F. = $97'-6$ " SIZE = $7'-0$ " x $7'-0$ " x $2'-0$ " (12) #5 x $6'-6$ " EACH WAY	(4) 3/4"ø x 36" @ BLDG. COLUMN (8) 1 1/4"ø x 36" @ WIND POST



REVISED BLUESCOPE CONSTRUCTION
PROJECT # G-16085
MoDOT Milan Mechanics
Milan. MO

A New Projec MoDO⁻ Milan Mech Milan, MC

DRAWN BY **SAY** CHECKED BY 54 DATE **September 2016** As Indicated JOB NUMBER **G16085** Foundation Sections